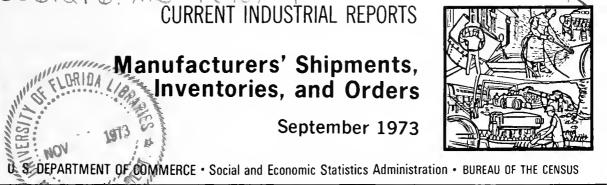


# C56.216: M3-1(73)-9 CURRENT INDUSTRIAL REPORTS



SERIES: M3-1(73)-9

FOR RELEASE: November 1, 1973

#### SUMMARY

New orders for manufactured products in September decreased \$1.19 billion, or 1.6 percent to \$74.92 billion from \$76.11 billion in August after seasonal adjustment. Shipments decreased \$190 million or 0.3 percent to \$72.83 billion. Unfilled orders increased \$2.09 billion or 1.9 percent to \$109.44 billion at the end of September. Manufacturers' inventories increased \$885 million or 0.8 percent to \$115.79 billion at the end of September. The inventories to shipments ratio increased from 1.57 to 1.59.

For the 3 months ending in September, the average month to month change in new orders declined 0.2 percent compared with a 1.2 percent increase for the 3 months ending in June and a 1.8 percent increase for the 3 months ending in March.

#### **NEW ORDERS**

New orders for durable goods decreased \$585 million or 1.4 percent to \$42.11 billion in September. The decrease was primarily attributable to declines in primary metals (\$905 million) and shipbuilding and railroad equipment (\$200 million) which were partially offset by increases in other industries, notably nonelectrical machinery (\$190 million), motor vehicles and parts (\$130 million), and instruments and related products (\$100 million).

#### SHIPMENTS

Shipments of durable goods increased \$350 million or 0.9 percent to \$39.98 billion. The September increase was led by the aerospace industry (\$240 million) and the motor vehicles and parts industry (\$160 million). Shipments of nondurable goods decreased \$540 million or 1.6 percent to \$32.85 billion. A decrease in the foods industry (\$510 million) led the decrease in nondurables.

### UNFILLED ORDERS

Unfilled orders of durable goods increased \$2.12 billion or 2.1 percent to \$104.75 billion at the end of September. This increase was concentrated in the nonelectrical machinery industries (\$660 million), fabricated metals industries (\$625 million) and electrical machinery industries (\$365 million).

#### **INVENTORIES**

Inventories of durable goods and nondurable goods increased \$795 million and \$95 million respectively at the end of September. At the all manufacturing level, materials and supplies increased \$310 million, work in process increased \$320 million, and finished goods inventories increased \$255 million.

## SCHEDULED RELEASE DATES

The figures on the durable goods industries in this report supersede those issued earlier in the advance report on durable goods. The present report is based on more complete reporting, but the estimates are also considered preliminary, Final figures will appear as historical data in the report to be published for next month. The advance report on durable goods for October is scheduled for release on November 21, 1973 and the full report is scheduled for release on December 3, 1973.

For an explanation of terms used in this report see appendix following table 5.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce. Social and Economic Statistics Administration. Bureau of the Census, Industry Division, Washington, D.C. 20233.

See footnotes at end of table.

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, BY INDUSTRY GROUP (Millions of dollars)

				(Million	s of doll	ars)								
			Ship	nents			Total inventories							
Industry group	Seaso	nally adj	usted		hout sease djustment		Seaso	nally adj	justed		out seaso djustment			
	Sept. 1973 <sup>p</sup>	Aug. 1973	July 1973	Sept. 19 <b>73</b> <sup>p</sup>	Aug. 1973 <sup>r</sup>	Sept. 1972	Sept. 1973 <sup>p</sup>	Aug. 1973	July 1973	Sept. 1973 <sup>p</sup>	Aug. 1973	Sept. 1972		
All manufacturing indus-									1					
tries: Total Total, excluding trans-	72,832	73,021	73,248	75,142	70,827	67,168	115,793	114,907	113,910	114,725	114,465	105,311		
portation	62,236	62,740	62,075	65,008	62,546	57,625	98,279	97,579	96,881	97,165	97,101	89,303		
Durable goods industries, total.	39,984	39,633	40,779	40,862	37,291	36,579	76,006	75,213	74,278	75,461	75,117	68,529		
Stone, clay, and glass products.	2,062	2,084	2,075	2,207	2,229	2,064	2,693	2,679	2,669	2,605	2,639	2,363		
Primary metals, total	6,241	6,165	6,023	6,131	5,846 2,882	5,122 2,449	9,350 4,786	9,346 4,820	9,452 4,869	9,237	9,225	9,681		
Blast furnaces, steel mills. Nonferrous metals	3,140 2,292	3,030 2,301	2,924	2,977 2,329	2,177	1,932	3,385	3,388	3,475	4,719 3,361	4,724 3,368	5,366 3,382		
All other primary metals	809	834	854	825	787	741	1,179	1,138	1,108	1,157	1,133	933		
Fabricated metal products total	4,369	4,385	4,606	4,681	4,455	4,261	8,510	8,378	8,238	8,498	8,508	7,612		
Metal cans, barrels, and drums	454	472	452	514	545	471	700	713	719	691	740	709		
Machinery, except electrical,														
total Engines and turbines	6,181 576	6,117 487	6,240 500	6,401 626	5,734 445	5,398 488	15,889 1,374	15,681 1,388	15,504 1,361	15,672 1,345	15,538 1,367	13,782		
Farm machinery and equipment. Construction, mining, and	603	583	568	641	530	547	1,304	1,309	1,314	1,259	1,288	1,176		
material handling equipment.	1,214	1,244	1,243	1,260	1,204	930	3,096	3,044	2,992	3,031	3,007	2,547		
Metalworking machinery General industrial machinery	328 543	338 509	344 551	343 558	299 506	299 471	1,371 1,350	1,336 1,322	1,306 1,314	1,366 1,328	1,334 1,306	1,103 1,189		
Electrical machinery, total Electrical transmission and	5,287	5,350	5,405	5,649	5,230	5,021	11,828	11,742	11,514	11,777	11,772	10,114		
distribution equipment and industrial apparatus	1,017	1,029	990	1,061	972	930	2,577	2,543	2,500	2,553	2,529	2,151		
Household appliances	691	718	665	725	740	626	1,157	1,157	1,168	1,129	1,133	995		
Radio and TV	501 1,133	500 1,154	603 1,130	625 1,152	540 1,094	561 1,098	1,037 3,316	1,062 3,316	1,052 3,220	1,046 3,313	1,122 3,303	939 2,900		
Transportation equipment, total	10,596	10,281	11,173	10,134	8,281	9,543	17,514	17,328	17,029	17,560	17,364	16,008		
Motor vehicles and parts Aircraft, missiles, and	6,683	6,524	7,055	6,305	4,667	6,247	5,255	5,107	5,102	5,355	5,260	4,715		
parts Shipbuilding and railroad	2,854	2,612	2,959	2,712	2,495	2,277	9,582	9,571	9,371	9,563	9,495	9,132		
equipment	<b>3</b> 99	381	414	407	370	343	1,838	1,833	1,770	1,843	1,814	1,467		
Instruments and related products, total	1,204	1,163	1,196	1,313	1,168	1,242	3,054	2,978	2,879	3,028	2,995	2,657		
Scientific and engineering	599	572	620	635	566	605	1,671	1,635	1,601	1,656	1,637	1,545		
All other instruments and related products	605	591	576	678	602	637	1,383	1,343	1,278	1,372	1,358	1,112		
All other durable goods		4 000	4 001	. 240	4 848		7,168			7,084				
industries	4,044	4,088	4,061	4,346	4,348	3,928	7,100	7,081	6,993	7,004	7,076	6,312		
Nondurable goods industries,	32,848	33,388	32,469	34,280	33,536	30,589	39,787	39,694	39,632	39,264	39,348	36,782		
Food and kindred products,	11,318	11,827	11,222	11,952	11,750	10,375	10.004	10,011	10 125	9,922	9,816	9,385		
Meat products	2,689	2,824	2,781	2,719	2,852	2,402	1,091	1,121		1,035	1,034	859		
Fats and oils	946	932	889	947	938	659	640	665	802	536	598	589		
Tobacco products  Textile mill products	497 2,486	540 2,550	506 2,550	514 2,618	2,602	502 2,438	2,396 4,439	2,399 4,379	2,331 4,349	2,293 4,352	2,246 4,371	2,166 3,897		
Paper and allied products,	0.704	2,767	2,722	9 001	2,798	9 450	2 0 25	2 000	2 000		2 000	2 020		
Pulp, paper, etc	2,724	1,163	1,168	2,801 1,148	1,180	2,456 994	3,063 1,050	3,032 1,017	3,006 1,038	3,019 1,033	3,029 1,015	2,830 1,053		
Paperboard containers All other paper containers	726 857	756 848	716 838	752 901	760 858	661 801	900 1,113	905 1,110	894 1,074	898 1,088	913 1,101	842 935		
Chemicals and allied products,							-,113	, = -	, ,	2,000	- 7			
total	5,497	5,694	5,641	5,682	5,536	5,076	7,170	7,140	7,136	7,040	7,100	6,824		
Industrial chemcials, except pigments	1,605	1,610	1,646	1,629	1,594	1,435	1,977	1,955	1,957	1,953	1,934	1,982		
Drugs, soap, and toiletries.	1,503	1,574	1,502	1,691	1,647	1,622	2,399	2,364	2,365	2,366	2,392	2,066		
Petroleum and coal products Rubber and plastics products,	3,118	3,017	2,936	3,139	3,017	2,611	2,361	2,388	2,412	2,383	2,398	2,395		
All other nondurable goods	1,695	1,700	1,712	1,732	1,702	1,735	2,541	2,539	2,532	2,492	2,498	2,276		
industries	5,513	5,293	5,180	5,842	5,571	5,396	7,813	7,806	7,731	7,763	7,890	7,009		

Table 1.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTOBIES, AND ORDERS, BY INDUSTBY GBOUP--Continued (Millions of dollars)

			New o	rders		Unfilled orders							
Industry group	Seasonally adjusted				out seaso		Seaso	nally adj	usted		out seaso djustment		
	Sept. 1973 <sup>p</sup>	Aug. 1973	July 1973	Sept 1973	Aug. 1973	Sept. 1972	Sept. 1973 <sup>p</sup>	Aug 1973	July 1973	Sept. 1973	Aug. 1973	Sept. 1972	
All manufacturing indus- tries:													
Total Total, excluding trans-	74,923	76,113	75,145	76,867	73,233	69,095	109,437	107,344	104,246	107,832	106,104	81,932	
portation	64,055	65,165	64,165	66,617	64,390	59,035	79,565	77,746	75,314	77,982	76,371	56,606	
Durable goods industries, total.	42,106	42,689	42,697	42,651	39,737	38,466	104,745	102,621	99,560	103,232	101,441	78,295	
Primary metals, total	6,243	7,150	6,658	6,016	6,255	5,247	14,800	14,798	13,815	13,147	13,261	6,988	
Blast furnaces, steel mills.	3,038	3,912	3,493	2,868	3,205	2,574	10,438	10,540	9,658	8,945	9,054	4,259	
Nonferrous metals	3,205	2,296	2,219	3,148	2,174	1,912	4,362	2,528	2,534	4,202	2,503	1,750	
Fabricated metal products	4,996	4,903	5,008	5,351	4,968	4,497	13,833	13,206	12,686	13,879	13,210	10,623	
Machinery, except electrical,													
total	6,837	6,647	6,902	6,902	6,321	5,595	19,776	19,118	18,587	19,567	19,068	13,535	
Engines and turbines Construction, mining, and	602	527	681	645	512	580	5,226	5,200	5,159	5,203	5,185	4,015	
material handling equipment.	1,307	1,387	1,433	1,330	1,322	930	3,801	3,707	3,564	3,774	3,704	2,576	
Metalworking machinery	354	412	408	388	382	332	1,797	1,770	1,696	1,827	1,783	944	
General industrial machinery.	752	508	634	720	549	542	2,126	1,917	1,918	2,075	1,913	1,336	
Electrical machinery, total	5,653	5,701	5,676	6,185	5,649	5,672	18,975	18,610	18,256	19,315	18,777	15,497	
Electrical transmission and distribution equipment and													
industrial apparatus	1,158	1,118	1.138	1,143	1,063	1,254	5,171	5,031	4,940	5,139	5,057	4,053	
Household appliances	687	724	673	716	751	637	147	151	145	147	155	140	
Radio and TV	533	466	661	683	502	651	685	652	686	749	691	743	
Communication equipment	1,112	1,308	888	1,329	1,292	1,244	6,292	6,314	6,160	6,489	6,312	6,124	
Transportation equipment,													
total	10,868	10,948	10,980	10,250	8,843	10,060	29,872	29,598	28,932	29,850	29,733	25,326	
Aircraft, missiles, and	2,955	2,867	2,698	2,598	2,774	2,434	19,104	19,003	18,748	19,283	19,396	17,558	
Shipbuilding and railroad	2,500	2,00	2,000	2,000	2,113	2,707	15,104	15,005	10,740	15,205	15,350	17,550	
equipment	338	540	504	418	386	635	6,401	6,462	6,304	6,288	6,278	5,021	
All other durable goods industries	7,509	7,340	7,473	7,947	7,701	7,395	7,489	7,291	7,284	7,474	7,392	6,326	
				' "		'			1				
Nondurable goods industries, total	32,817	33,424	32,448	34,216	33,496	30,629	4,692	4,723	4,686	4,600	4,663	3,637	
Industries with unfilled													
orders Industries without unfilled	8,265	8,370	8,242	8,540	8,395	7,829	4,692	4,723	4,686	4,600	4,663	3,637	
orders	24,552	25,054	24,206	25,676	25,101	22,800	-	-	-	-	-	-	

<sup>-</sup> Represents zero. Preliminary. Revised.

Adjusted for trading-day and calendar-month variations.

Table 2.--VALUE OF MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS, FOR MARKET CATEGORIES AND SUPPLEMENTARY SERIES (Millions of dollars)

Industry group	Seasonally adjusted			Without seasonal adjustment <sup>1</sup>			Seaso	nally ad	justed	Without seasonal adjustment				
	Sept. 1973 <sup>p</sup>	Aug. 1973	July 1973	Sept. 1973 <sup>p</sup>	Aug. 1973	Sept. 1972	Sept. 1973 <sup>p</sup>	Aug. 1973	July 1973	Sept. 1973 <sup>p</sup>	Aug. 1973	Sept. 1972		
			Shipm	ents	•	•		1	otal inv	ventories				
All manufacturing industries, total	72,832	73,021	73,248	75,142	70,827	67,168	115,793	114,907	113,910	114,725	114,465	105,311		
Durable goods industries, total Nondurable goods industries, total	39,984 32,848	39,633 33,388	40,779 32,469	40,862 34,280	37,291 33,536	36,579 30,589	76,006 39,787	75,213 39,694	74,278 39,632	75,461 39,264	75,117 39,348	68,529 36,782		
Industry groups arranged by market categories:														
Home goods and apparel	6,670 13,886	6,616 14,472	6,541 13,837	7,313 14,748	7,213 14,446	6,675 13,186	12,921 15,385	12,842 15,345	12,707 15,254	12,735 15,269	12,895 15,104	11,398 14,241		
automotive  Automotive equipment  Construction materials, supplies, and	10,276 7,854	9,954 7,807	10,480 8,344	10,422 7,555	9,497 5,927	8,869 7,469	29,751 6,911	29,464 6,749	28,912 6,708	29,458 6,949	29,222 6,861	26,311 6,144		
intermediate products Other materials and supplies and	5,970	5,928	6,098	6,399	6,277	5,777	9,738	9,590	9,446	9,593	9,573	8,530		
intermediate products	28,176	28,244	27,948	28,705	27,467	25,192	41,087	40,917	40,883	40,721	40,810	38,687		
Supplementary series; <sup>2</sup> Household durable goods industries  Capital goods industries.  Nondefense.  Defense.	2,995 11,914 10,300 1,614	3,084 11,687 10,135 1,552	3,095 12,138 10,465 1,673	3,325 12,134 10,470 1,664	3,270 11,113 9,553 1,560	3,001 10,472 8,878 1,594	6,056 33,615 28,087 5,528	5,998 33,351 27,796 5,555	5,936 32,740 27,306 5,434	5,985 33,376 27,863 5,513	6,048 33,118 27,608 5,510	5,338 29,654 24,806 4,848		
	New orders							Unfilled orders						
All manufacturing industries, total	74,923	76,113	75,145	76,867	73,233	69,095	109,437	107,344	104,246	107,832	106,104	81,932		
Ourable goods industries, total Nondurable goods industries, total	42,106 32,817	42,689 33,424	42,697 32,448	42,651 34,216	39,737 33,496	38,466 30,629	104,745 4,692	102,621 4,723	99,560 4,686	103,232 4,600	101,441 4,663	78,295 3,637		
Industry groups arranged by market categories:														
Home goods and apparel  Consumer staples  Equipment and defense products, except	6,752 13,880	6,491 14,480	6,642 13,846	7,377 14,749	7,087 14,451	6,762 13,186		2,761	2,877	2,965	2,901	2,560		
automotive Automotive equipment Construction materials, supplies, and	10,960 8,086	10,939 8,060	10,753 8,322	10,951 7,774	10,326 6,194	9,826 7,537	353,089	52,173	50,932	52,965	52,218	42,527		
intermediate products Other materials and supplies and intermediate products	6,506 28,739	6,417	6,406 29,176	6,998 29,018	6,682 28,493	6,015 25,769	12,811 40,701	12,274	11,785 38,652	12,871 39,031	12,271 38,714	10,004 26,841		
Supplementary series: <sup>2</sup> Household durable goods industries Capital goods industries Nondefense Oefense.	3,041 12,732 11,103 1,629	2,996	3,154 12,603 11,404 1,199	3,361 12,796 11,118 1,678	3,202 12,231 10,548 1,683	3,100 11,737 9,778 1,959	2,247 58,791 38,005 20,786	2,201 57,974 37,202 20,772	2,288 56,773 36,303 20,470	2,388 58,744 37,937 20,807	58,083 37,289	2,099 48,214 28,532 19,682		

-During 1968 manufacturers in ordnance, communications, aircraft and aircraft parts, and shiphuilding industries began to provide aggregate figures on shipments, orders, and total inventories of work performed for the Department of Defense. The results of these reports are included in the defense series.

PPreliminary. FRevised. Shipments and new orders adjusted for trading-day and calendar-month <sup>1</sup>Shipments and new orders adjusted for (rading-da) should be separate industry

<sup>2</sup>The supplementary series are regroupings of the separate industry variations; unfilled orders and inventories as of end of month. categories as follows:

Household durable goods industries - Household furniture; kitchen articles and pottery; cutlery, handtools, and hardware; household

appliances; ophthalmic goods, watches, and clocks; and miscellaneous personal goods.

Capital goods industries - The capital goods industries series is comparable to the previous Producers' Capital Goods and the Defense Products (old series) categories.

Nondefense products - Machinery, except electrical (excluding farm machinery and equipment and machine shops), electrical machinery (excluding household appliances and electronic components), and the nondefense portions of shipbuilding and repairing and railroad equipment, communication equipment, aircraft and aircraft parts, and ordnance.

Defense products - Based on separate reports on defense work filed by large defense contractors in the following industries: ordnance, communications, aircraft and aircraft parts, and shipbuilding. The data are comparable to those published annually in the MA-175, Shipments of Defense-Oriented Industries, for the specified industries.

Table 3.--MANUFACTURERS' SHIPMENTS, INVENTORIES, AND ORDERS MONTH-TO-MONTH AND LONG TERM PERCENT CHANGES

### (Dased on seasonally adjusted data)

	Мо	nth-to-mon	th	Ave	rage monthl	hange	Average, 1967-72			
Item and industry group	Aug Sept. 1973	July- Aug. 1973	June- July 1973		3 months		12 months			
				June- Sept. 1973	Mar June 1973	Dec. 1972- Mar. 1973	Sept. 1972- Sept. 1973	Average rise	Average decline	
Shipments:										
All manufacturing industries	-0,3	-0.3	+2.3	+0.6	+0.9	+1.3	+1.0	+1.3	-1,2	
Durable goods industries, total	+0.9	-2.8	+3.9	+0.7	+1.0	+1.3	+1.1	+1.9	-1.6	
Nondurable goods industries, total	-1.6	+2.8	+0.3	+0.5	+0.7	+1.3	+1.0	+0.9	-0.7	
Total inventories: All manufacturing industries	+0.8	+0.9	+0.8	+0.8	+0.9	+0.7	+0.7	+0.5	-0.1	
New orders:	10.0			70.0		10.7	10.7	+0.5	-0.1	
All manufacturing industries	-1.6	+1.3	-0.3	-0.2	+1.2	+1.8	+1.0	+1.8	-1.5	
Ourable goods industries, total	-1.4	0.0	-0.7	-0.7	+1.6	+2.3	+1.0	+2.8	-2.4	
Nondurable goods industries, total	-1.8	+3.0	+0.3	+0.5	+0.6	+1.3	+1.0	+1.0	-0.6	
Unfilled orders:					_					
Durable goods industries, total	+2.1	+3.1	+2.0	+2.4	+3.5	+2.4	+2.4	+1.0	-1.1	

 ${\tt Table}\ 4. {\tt --VALUE}\ {\tt OF}\ {\tt MANUFACTURERS'}\ {\tt INVENTORIES},\ {\tt HY}\ {\tt STAGE}\ {\tt OF}\ {\tt FABRICATION},\ {\tt BY}\ {\tt INOUSTRY}\ {\tt GROUP}$ Millions of dollars

Industry group		Seasonally adjusted			Without seasonal adjustment			Seasonally adjusted			Without seasonal adjustment		
andarity group	Sept. 1973 p	Aug. 1973	July 1973	Sept. 1973 <sup>p</sup>	Aug. 1973	Sept. 1972	Sept. 1973 <sup>p</sup>	Aug. 1973	July 1973	Sept. 1973 <sup>p</sup>	Aug. 1973	Sept. 1972	
	Total					Materials and supplies							
All manufacturing industries, total	115,793	114,907	113,910	114,725	114,465	105,311	37,902	37,594	37,071	37,803	37,667	33,35	
Ourable goods industries, total	76,006	75,213	74,278	75,461	75,117	68,529	22,305	22,080	21,721	22,561	22,430	19,84	
Stone, clay, and glass products	2,693 9,350 27,717 17,514 18,732	2,679 9,346 27,423 17,328 18,437	2,669 9,452 27,018 17,029 18,110	2,605 9,237 27,449 17,560 18,610	2,639 9,225 27,310 17,364 18,579	2,363 9,681 23,896 16,008 16,581	927 3,384 7,740 3,395 6,859	910 3,377 7,602 3,407 6,784	886 3,389 7,411 3,413 6,622	931 3,478 7,676 3,482 6,994	909 3,422 7,642 3,474 6,983	805 3,393 6,206 3,216 6,236	
Nondurable goods industries, total	39,787	39,691	39,632	39,264	39,348	36,782	15,597	15,514	15,350	15,242	15,237	13,509	
Chemicals and allied products	7,170 2,361 2,541 27,715	7,140 2,388 2,539 27,627	7,136 2,412 2,532 27,552	7,040 2,383 2,492 27,349	7,100 2,398 2,498 27,352	6,824 2,395 2,276 25,287	2,657 557 887 11,496	2,627 559 866 11,462	2,623 520 840 11,367	2,637 545 893 11,167	2,625 557 881 11,174	2,403 507 704 9,895	
			Work in	process			Finished goods						
All manufacturing industries, total	41,033	40,711	40,121	40,902	40,617	36,784	36,858	36,602	36,718	36,020	36,181	35,170	
Durable goods industries, total	34,749	34,461	33,944	34,633	34,353	30,931	18,952	18,672	18,613	18,267	18,334	17,75	
Stone, clay, and glass products	375 3,493 12,616 12,487 5,778	371 3,477 12,539 12,384 5,690	355 3,514 12,358 12,133 5,584	361 3,417 12,590 12,494 5,771	366 3,406 12,511 12,354 5,716	l ' l	l ' l	1,398 2,492 7,282 1,537 5,963	1,428 2,549 7,249 1,483 5,904	1,313 2,342 7,183 1,584 5,845	1,364 2,397 7,157 1,536 5,880	1,242 2,839 6,850 1,614 5,205	
Nondurable goods industries, total	6,284	6,250	6,177	6,269	6,264	5,853	· ′	17,930	18,105	17,753	17,847	17,420	
Chemicals and allied products	1,139 520 405 4,220	1,136 529 404 4,181	1,117 533 399 4,128	1,123 525 405 4,216	1,126 525 404 4,209	1,020 517 373 3,943	3,374 1,284 1,249 11,999	3,377 1,300 1,269 11,984	3,396 1,359 1,293 12,057	3,280 1,313 1,194 11,966	3,349 1,316 1,213 11,969	3,401 1,371 1,199 11,449	

p<sub>Preliminary.</sub>

Table 5, -- RATIO OF MANUFACTURERS' INVENTORIES TO SHIPMENTS AND UNFILLED ORDERS TO SHIPMENTS, BY INDUSTRY GROUP (Based on seasonally adjusted data)

	Inven	tories - s	hipments r	atio	Unfilled orders - shipments ratio (months' backlog)				
Industry group	Sept. 1973 <sup>p</sup>	Aug. 1973	July 1973	Sept. 1972	Sept. 1973 <sup>p</sup>	Aug. 1973	July 1973	Sept. 1972	
All manufacturing industries, total	1.59	1.57	1,56	1,65	2.55	2.51	2.41	2.18	
Durable goods industries, total	1.90	1.90	1.82	1.95	3.03	2.98	2.84	2.60	
Stone, clay, and glass products. Primary metals. Fabricated metals. Machinery, except electrical Electrical machinery. Transportation equipment Instruments and related products.	1.31 1.50 1.95 2.57 2.24 1.65 2.54	1.29 1.52 1.91 2.56 2.19 1.69 2.56	1.29 1.57 1.79 2.48 2.13 1.52 2.41	1.27 1.88 1.91 2.68 2.16 1.68 2.35	(NA) 2.37 3.53 3.20 3.59 5.10 (NA)	(NA) 2,40 3,37 3,13 3,48 5,09 (NA)	(NA) 2,29 3,05 2,98 3,38 4,70 (NA)	(NA) 1.50 2.97 2.62 3.24 4.93 (NA)	
fondurable goods industries, total	1.21	1.19	1,22	1.27	0.57	0.57	0.57	0.49	
Food and kindred products. Tobacco products. Textile mill products. Paper and allied products. Chemicals and allied products. Petroleum and coal products. Rubber and plastics products, n.e.c.	0.88 4.82 1.79 1.12 1.30 0.76 1.50	0.85 4.44 1.72 1.10 1.25 0.79	0.90 4.61 1.71 1.10 1.27 0.82 1.48	0.96 4.67 1.72 1.20 1.43 0.92	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X)	(X) (X) (NA) (NA) (X) (X)	

<sup>(</sup>NA) Not available. Preliminary. rRevised. (X) Not applicable.

\*Excludes the following industries with no unfilled order: Wooden containers; glass containers; metal cans, barrels and drums; motor vehicle assembly operations; foods and related products; tobacco; apparel and related products; chemicals; petroleum and coal products; and rubber and plastics products, n.e.c.

# **Appendix**

The following is a description of the survey and definitions used. These are provided to clarify the meaning of the items involved and do not represent any revisions from those definitions previously employed.

### DESCRIPTION OF THE SURVEY

The Manufacturers' Shipments, Inventories, and Orders survey provides monthly figures that are comparable to the annual totals published each year in the annual survey of manufactures (ASM). The ASM is based on a sample of approximately 60,000 manufacturing establishments drawn from the 5-year census universe of about 310,000 estab-In the ASM, each manufacturing establishment provides data on employment, payrolls, shipments, cost of materials, capital expenditures, and inventories as well as other selected items. The establishments do not provide information on unfilled orders or new orders. Since the ASM is establishment based, it provides data for each of the 425 manufacturing industries in the Standard Industrial Classification System (SIC) and area data for industry groups.

The monthly survey M3-I does not provide information at the complete SIC industry detail because of the smaller size of the reporting panel and the fact that most companies cannot provide shipments, inventories, and orders data monthly for individual establishments.

The monthly reporting panel consists of approximately 5,000 reporting units and includes virtually all companies with 1,000 or more employees and a sample of the smaller ones. The reporting unit typically comprises the entire operations of a company although many of the larger diversified companies file separate divisional type reports for their operations in different industries.

Most of the reporting units include mixed industry activity even within the broad industry categories of the monthly survey. The survey methodology assumes that the month-to-month changes of the reporting units classified in each industry category represent effectively the month-to-month movements of the establishments in the SIC industries which make up the category. Thus, the monthly reports are used to update the ASM estimates by using a link relative of matched companies in each industry.

### **EXPLANATION OF TERMS**

Value of Shipments--Shipments in the monthly survey are equivalent to value of shipments as reported in the ASM which are received or receivable net selling values, f.o.b. plant, after discounts and allowances and excluding freight charges and excise taxes. Included in shipments are the value of all products sold, transferred to other plants of the same company, or shipped on consignment.

Shipments also include receipts of establishments in the industry for contract work performed for others, resales, receipts for miscellaneous activities such as the sale of scrap and refuse; value of installation and repair work performed by employees of the plant; and value of research and development performed at the plant. In the aircraft industry and shipbuilding, the value of work done in a given year varies considerably from the value of shipments because of the long lead time between the input of the materials and labor and the shipments of the completed aircraft or ship. In the annual survey, therefore, the value of work done during the year is requested rather than the value of shipments.

The value of shipments figures developed from the ASM contain duplication at the all manufacturing and industry group levels since the products of some industries are used as materials by other industries within the industry group. With the exception of motor vehicles, it is not significant at the 4-digit SIC group level. Since the M3-I industry categories typically are groupings of industries, this duplication is significant for the all manufacturing, durable goods and nondurable goods categories and the various market groups. The significance of the duplication within the specific M3-I industry groups varies depending on the 4-digit industry composition of these groups. It is most pronounced in a few highly integrated industry areas such as primary metals and motor vehicles and parts.

Since most monthly reports are for the entire company or major divisions rather than establishments, the companies are requested to report net sales, i.e., total company billings after discounts and allowances. Companies which file divisional reports are requested to treat transfers from one division of the company to another as if they were not sales to outside customers. Although this

definition of shipments in the monthly reports differs from that used in the annual establishment reports, it is assumed that the month-to-month changes in company sales in the industry are representative of the month-to-month shipments of the establishments in the industry.

Inventories—End-of-month inventories in the monthly survey are identical in definition to the end-of-year inventories in the ASM. In the ASM, respondents are asked to report inventories of individual establishments at approximate current cost if feasible; otherwise, "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the aggregate inventories for establishments in an industry is not precise. The figures on the change in inventories from one period to the next are of greater significance than the actual aggregates.

Inventories are reported by stage of fabrication: (a) finished goods; (b) work in process; and (c) materials, supplies, fuel, and other inventories. In using inventories by stage of fabrication at the all manufacturing and 2-digit industry levels as well as for the durable and nondurable goods sectors, it should be noted that a finished product of one industry may be a raw material for another industry at the next stage of fabrication. Insofar as the durable and nondurable goods sectors and also the 2-digit industry groups contain industries with successive stages of processing, the same type of commodity may be included under different inventory categories in the aggregate statistics.

New Orders Received and Unfilled Orders --Orders as reported in the monthly survey are net of cancellations during the month. They include orders received during the period and also filled during the period as well as those orders received for future delivery. They also include the net sales value of contract change documents which increase or decrease the sales value of the unfilled orders to which they relate. Orders include only those supported by binding legal documents such as signed contracts, or letter contracts. In case of letter contracts the full amount of the sales value is included if the parties are in substantial agreement on the amount; otherwise, only the funds specifically authorized to be expended are included. The respondent is instructed to deduct the sales value of paritial or complete cancellation of existing orders.

Unfilled orders include orders as defined above that have not yet passed through the sales account. Generally, unfilled orders at the end of the reporting period are equal to unfilled orders at the beginning of the period plus net new orders received less net sales.

While both new orders and unfilled orders are used in reviewing individual company reports for consistency, only unfilled orders are estimated directly in the tabulated totals. New orders are derived from the shipments plus net change in unfilled orders for each industry category. This procedure is followed for seasonally adjusted data as well as for the unadjusted data. Shipments and unfilled orders are seasonally adjusted independently. Seasonally adjusted new orders are derived from seasonally adjusted shipments and seasonally adjusted unfilled orders.